

**ABACUS 8 LIGHT LED LINEAR PENDANT**

SKU# 028155, 028156

Rated Voltage 220-240V~ 50Hz.

To ensure correct function and safety, please read and follow all instructions carefully before assembly, installation and use of this product. Please keep instructions for future reference.


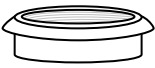
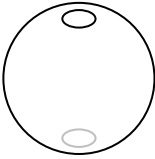
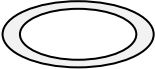
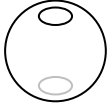

**Warranty**

- This luminaire is covered by a 3-year warranty. The warranty is from the date of purchase, not the date of installation.
- If the luminaire is not assembled and installed by a licensed electrician, the warranty will be void.
- Please retain the proof of purchase and evidence of installation by a licensed electrician for any warranty enquiries.
- The use of non-compatible dimmers may damage your luminaire and will void your warranty.
- Warranty will be void if there is any damage due to improper usage or modification to the luminaire.
- Failure to comply with instructions in this manual may increase the risk of damage or injury and will void the warranty.

**Installation Requirements**

- This luminaire must be assembled and installed by a licensed electrician.
- All wiring and installation of the luminaire must adhere to the latest local and national wiring rules.  
E.g. AS/NZS 3000 Electrical Installations.
- The luminaire is a Class I product and must be earthed during wiring and installation.
- Cables or wires of different voltage systems (e.g. Low Voltage and SELV), must be separated by double insulation.
- Select a suitable location for installation:
  - This luminaire is suitable for indoor use only.
  - The mounting point must support 2 times the weight of the luminaire.
  - Ensure the luminaire is not installed in the direct line of an air vent/system.
  - If installing a luminaire in an area prone to moisture, ensure that the area is well ventilated, and an appropriately rated exhaust fan is used if required. Damage or corrosion caused by moisture is not a product fault, and as such is not covered under warranty.
- The colour shifting function is designed to operate with a mechanical or relay ON/OFF switch, as well as selected semi-conductor ON/OFF switches, such as MFL Artisan or Lucci Power Dimmers with ON/OFF functionality. Please note the colour shifting function may not operate correctly on all semi-conductor switches.
- The use of a LED dimmer is strongly recommended. Please see **Highly Recommended Dimmers** Section of the Specifications on Page 4 for a list of SKUs that have been specifically designed & tested for use with this luminaire.  
**NOTE:** Dimming may cause buzzing sounds or a slight flicker. There may be slight delays with the LED light start up or slight uneven light performance when more than one LED light fitting is linked together, switched ON or dimmed. This is not a product fault and as such is not covered under warranty.  
**NOTE:** Some dimmers have a minimum load of 20W. Ensure the dimmer position is on the maximum setting before turning on the LED light and adjust the dimmer down to your desired light level.  
**NOTE:** Testing cannot account for installation variables such as variation in mains supply voltage, cable capacitance, electrical noise, transients, surges and ripple control signals (commonly found in NSW & QLD).  
**NOTE:** The information provided is correct to the best of Beacon Lighting's knowledge at the date of publication.
- Take care not to pull any electrical wires during unpacking as this may damage the connection.
- Lay out all the components on a smooth surface and make sure no components are missing before assembling. If parts are missing, return the complete product to the place of purchase for inspection or replacement.
- Check whether the luminaire has been damaged during transport. Do not operate/install any product which appears damaged in any way. Return the complete product to the place of purchase for inspection, repair or replacement.

## Shade Component List

Component	QTY	Component	QTY
 80mm Glass Shade (P)	4	 Shade Ring (S)	10
 150mm Glass Shade (Q)	2	 Rubber Washer (T)	16
 100mm Glass Shade (R)	2	 Spacer Ring (U)	3

**NOTE: Please take care when installing the glass shades over the luminaire, making sure to avoid the openings of the glass hitting against the wider parts of the luminaire as they pass over them.**

## Installation Directions

**NOTE: Ensure power to the circuit you are working on has been switched OFF before commencing any electrical work.**

**NOTE: Due to the size/weight/wiring of the luminaire, two people will be required to lift the luminaire during the installation process.**

1. Remove all packaging material from the product and be careful not to throw away accessories that may be hidden within the packaging material. If assembly is required, place the luminaire on a smooth non-scratch surface.
2. Remove the mounting bracket (B) from the canopy (H) by loosening the screws (G) on the side.
3. Use the mounting bracket (B) as a template to mark the screw positions on the ceiling.
4. Install the mounting bracket (B) onto the ceiling by using appropriately sized mounting screws (D), washers (C) and anchors (A). Ensure the screws (D) and anchors (A) used are suitable for the mounting surface and the surrounding environment.
5. Remove the hanger bracket (J) from the hanger (L) on the other side of the luminaire.
6. Measure and mark the position of the hanger bracket onto the ceiling to ensure the suspension wires (M, N) will be hanging straight and parallel.
7. Install the hanger bracket (J) onto the ceiling by using appropriately sized mounting screw (D) and anchor (A). Ensure the screw (D) and anchor (A) used are suitable for the mounting surface and the surrounding environment.
8. Install the glass shades (P—80mm 4 pcs, Q—150mm 2 pcs, R—100mm 2pcs) over the LEDs on to the luminaire rod (O) and secure using the shade rings (S), rubber washers (T) and spacer rings (U). Follow the installation diagram for the correct sequence.

**NOTE: The 6x glass shades (P, Q, R) in the middle of the fitting, and their shade rings (S), washers (T) and spacer rings (U) all require the suspension wire (M) to be passed through them prior to installation.**

**NOTE: The shade rings (S) and spacer rings (U) need to be threaded past the first LED section (indicated on the installation diagram) prior to passing the suspension wire (M) through them.**

**NOTE: Please take care when installing the glass shades over the luminaire, making sure to avoid the openings of the glass hitting against the wider parts of the luminaire as they pass over them.**

9. Determine the suspension length required for your installation location. The luminaire suspensions (M, N) can be adjusted by pushing excess wiring through the cord anchorages (I, L). Install the wire anchor nut (K) onto the suspension wire (M) and lock the suspension length into position with the Allen key and hex screw provided.
10. Install the hanger (L) onto the hanger bracket (J) by twisting it in a clockwise direction. Excess suspension wire (M) can be threaded through the side of the hanger bracket (J) and removed as necessary.
11. Connect the luminaire wires (Black, Red, White) to the output side of the LED driver (F) using the quick connector. Ensure the connection is secure.
12. Connect the mains supply wires to the terminal block (E) on the input side of the LED driver (F).

**Mains Supply Wire**

Earth – Yellow/Green

Neutral – Blue or Black

Live – Brown or Red

**Luminaire Wire / Terminal block**

Yellow/Green or 

Blue or N

Brown or L

Ensure that the wires are secure, and no bare wires are exposed.

**NOTE: The luminaire is a Class I product and must be earthed during wiring and installation.**

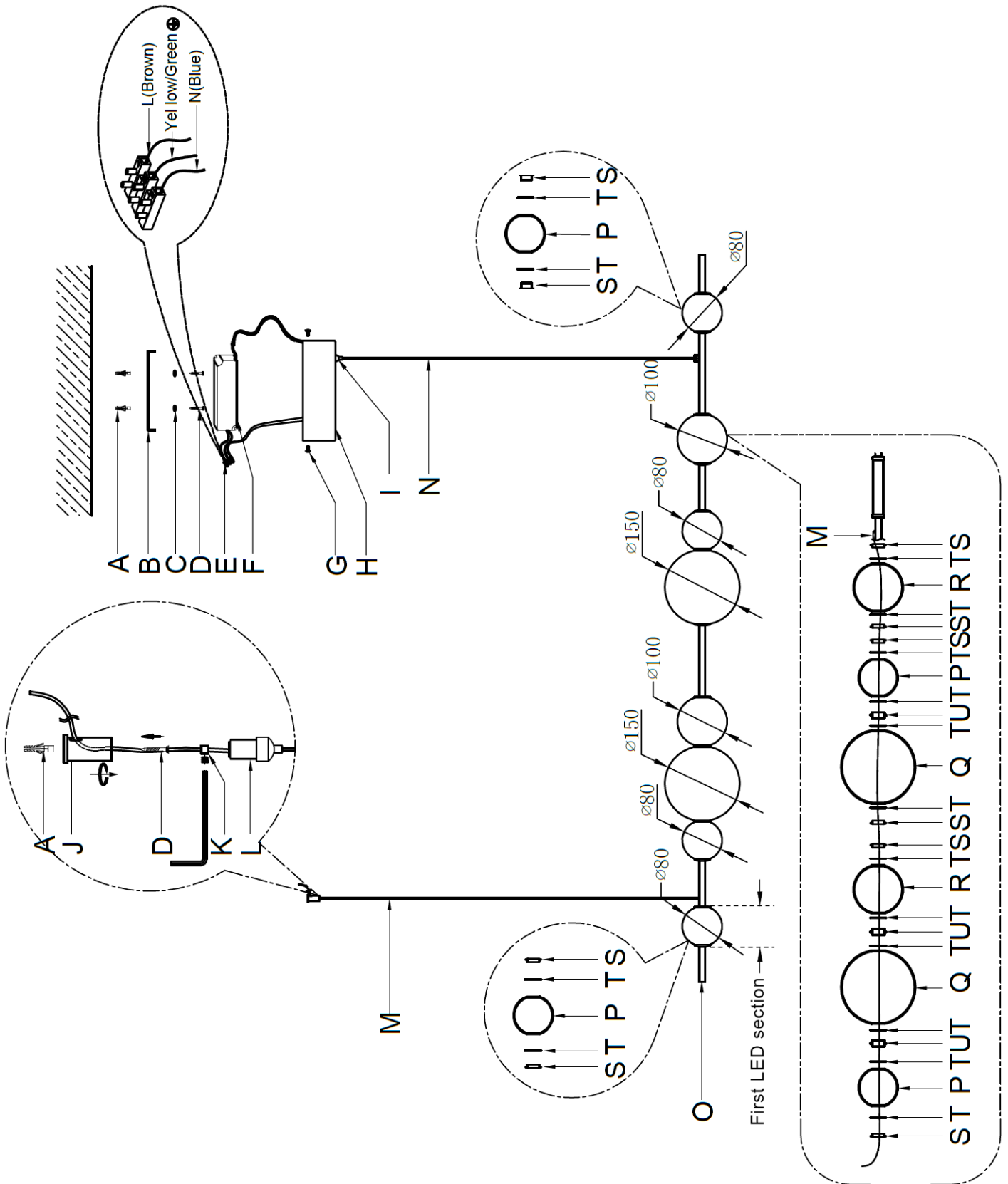
**NOTE: Ensure the earth wires from the mounting bracket (B) and canopy (H) are connected to the earth terminal on the screw-type terminal block (E).**

**NOTE: Ensure the mains supply wire connection to the terminal block is double insulated, due to the proximity to SELV parts and other wiring.**

**NOTE: After the wiring is complete, the terminal block must be wrapped with insulating tape.**

13. Install the canopy (H) onto the mounting bracket (B) and secure it by tightening the screws (G) on the sides.
14. After the installation, switch on the luminaire to test all the lighting functions and enjoy your new lighting product.
15. To operate the colour shifting function, use the wall switch.
  - While the luminaire is on, toggle the wall switch OFF and ON again within 3 seconds.
    - The colour shifting sequence will jump from 3000K – 5000K – 4000K. (for SKU# 028155)
    - The colour shifting sequence will jump from 2500K – 3500K – 3000K. (for SKU# 028156)
  - For the colour shifting to memorise the colour temperature, leave the wall switch OFF for over 7 seconds.
  - To reset the colour shifting, toggle the wall switch OFF and ON twice within 1 second.

**NOTE: If using an MFL Artisan or Lucci Power Dimmer, please see the Dimmer Installation Manual for instructions on how to operate the colour shifting functions correctly.**



## Safety Tips

- Always ensure the power is OFF and the luminaire has cooled down before performing any maintenance, cleaning, changing the lamps or making any adjustment to the luminaire.
- To avoid injury or damage to the luminaire, ensure that power leads and screws are secure before connecting the power.
- The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced. There are no serviceable parts, do not attempt to dismantle or open the luminaire.
- Select a suitable location away from liquids and hazards.
- To clean, wipe with a soft damp cloth. Do NOT soak or immerse the luminaire in water or other liquids.
- Ensure that the luminaire does not come in contact with corrosive chemicals/solvents or abrasive cleaners etc.

## Specifications

SKU #	028155	028156
Colour	Aged Brass Finish / Gloss Opal Glass	Bronze Finish / Sepia Glass
Rated Voltage	220-240V~ 50Hz	
Rated Wattage	38W Max.	
LED Specs	Dimmable, Colour Shifting LEDs*, CRI ≥ 90	
Rated Lumens	3000K – 2200 lumens 5000K – 2300 lumens 4000K – 2400 lumens	2500K – 1950 lumens 3500K – 1970 lumens 3000K – 1970 lumens
Highly Recommended Dimmers	Lucci Power SKU# 290989, 290992, 290993, 290994. MFL Artisan SKU# 197015, 197016, 197017, 197018. Lucci LEDlux SKU# 290997. Lucci Connect SKU# 299043. Buster + Punch DIM-002	
Compatible Dimmers	Clipsal 31E2PUDM, 31E2RUDM, 32E450TM, 32E450UDM. DIGINET LED Smart MEDM. HPM Cat. 400T.	
Weight	3.5kg	2.5kg
Canopy Dimensions	H:65mm L:200mm W:45mm	
Luminaire Dimensions	H:150mm L:1465mm W:150mm Susp:2000mm Max.	

\* The colour shifting function is designed to operate with a mechanical or relay ON/OFF switch, as well as selected semi-conductor ON/OFF switches, such as MFL Artisan or Lucci Power Dimmers with ON/OFF functionality outlined above. Please note the colour shifting function may not operate correctly on all semi-conductor switches.